

Proposal Full View

Applicant Information

Organization Name *

Tax ID **237046670**

Proposal Name Groundwater Recharge
Measurement Improvement Project *

Proposal Objective The objective of this project is to estimate the infiltration rate and provide more accurate measurement of the volume of water recharged at District owned basins. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>	
Local Contribution	<input type="text" value="\$0.00"/>	
Federal Contribution	<input type="text" value="\$0.00"/>	
Inkind Contribution	<input type="text" value="\$0.00"/>	
Amount Requested	<input type="text" value="\$250,000.00"/>	*
Total Project Cost	<input type="text" value="\$250,000.00"/>	*

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification	Center of District	Location
County		Fresno *
Ground Water Basin		San Joaquin Valley-Kings
Hydrologic Region		Tulare Lake
Watershed	south valley floor	

Legislative Information

Assembly District 29th Assembly District *

Senate District 14th Senate District *

US Congressional District District 19 (CA) *

Project Information

Project Name

Groundwater Recharge Measu

Implementing Organization	Fresno Irrigation District
Secondary Implementing Organization	
Proposed Start Date	4/1/2013
Proposed End Date	7/14/2014
Project Scope	Installation of improved groundwater recharge measurement at groundwater recharge basins operated by the District

Project Description

The District desires to improve the measurement capabilities at several of its recharge ponds and basins. The District currently has 40 different ponds and basins, but approximately 10 of these facilities still require a flow meter to measure and record surface water deliveries into the basins. The District is planning on improving up to 10 of the remaining sites that still require measurement. Currently the District utilizes daily (or less frequent) measurements of the flow rate in the canal that delivers water to the basin, or estimates diversion into the basin using the gate opening and head loss through the gate. These measurements are estimates, and are difficult for District's water system operators to obtain on a daily or regular basis. Groundwater recharge has contributed significantly to stabilization of groundwater levels, however the recharge amounts in this area has not been quantified as accurately as it could be with improved measurement capability. The project will focus on recharge basins currently owned and utilized by the District. Private or leased facilities are not planned for this project. These basins total approximately 109 acres and have an average annual recharge estimated at approximately 14,000 acre-feet which is a significant amount of recharge in this area. Completion of these improvements will nearly complete metering at all basins, with the exception of only a few inline and private ponds, which is a goal within the GWMP. Nearly all of the basins do not include staff gauges within the basin. Staff gauges are needed to provide water level information for operations, but more importantly can be utilized to monitor infiltration rates. The staff gauges and ongoing operation will provide further clarification of these basin characteristics. The proposed project consists of three elements which include: 1)

	Design of Measurement Improvements; 2) Measurement Improvement Construction; 3) Reporting
Project Objective	1) Maintain daily, monthly and annual recharge volumes for each basin;(2)Utilize recharge volume information for basin expansion, maintenance or modification decisions; (3) Establishment of a baseline of operational data to allow for comparison from year to year of the performance and use of each basin;(4)Discuss and report findings, conclusions and recommendations to interested parties, the TAC, the District Board, agencies and the public.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Groundwater Management-Devices Installed	11	Monitor amount of recharge at each basin
Secondary	Water Storage -- Conjunctive-Other	14000	Better manage amount of water stored in basins

Project Objective

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="0"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="250000"/>
Total Project Cost	<input type="text" value="250000"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="36"/>	MM	<input type="text" value="45"/>	SS	<input type="text" value="24"/>
Longitude DD(+/-)	<input type="text" value="-119"/>	MM	<input type="text" value="49"/>	SS	<input type="text" value="2"/>

Longitude/Latitude Clarification Location

County Fresno Ground Water Basin San Joaquin Valley-Kings Hydrologic Region Tulare Lake
 WaterShed

Legislative Information

Assembly District	29th Assembly District
Senate District	14th Senate District
US Congressional District	District 19 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

Q1. Applicant Information

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Fresno Irrigation District 2907 South Maple Ave Fresno, CA 93725

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

The scope of the proposal is the installation of improved groundwater recharge measurement at groundwater recharge basins operated by the District. The District currently has 40 different ponds and basins, but approximately 10 of these facilities still require a flow meter to measure and record surface water deliveries into the basins. The District is planning on improving up to 10 of the remaining sites that still require measurement. Currently the District utilizes daily (or less frequent) measurements of the flow rate in the canal that delivers water to the basin, or estimates diversion into the basin using the gate opening and head loss through the gate. These measurements are estimates, and are difficult for District's water system operators to obtain on a daily or regular basis. Recharge amounts in this area has not been quantified as accurately as it could be with improved measurement capability. Nearly all of the basins do not include staff gauges within the basin. Staff gauges are needed to provide water level information for operations, but more importantly can be utilized to monitor infiltration rates. This project is specifically mentioned in the GWMP. Under Section 8.1 - Groundwater Recharge, on Page 8-3 of the Fresno Area Regional GWMP, the fifth bulleted item mentioned under the Planned Activities is to "Install flowmeters on all unmetered turnouts to recharge basins in FID." The project is also consistent with, and in support of goals and objectives in the Groundwater Management Plan. As stated in the GWMP, these are to: 1)"Correct the overdraft and stabilize groundwater levels at the highest practical level" (BMO #2, page 4-1 of the GWMP). This project will provide new information on the performance of each basin and the volume of water recharged. This information will provide needed information to determine basin improvements and evaluate changes in basin performance and use, in an effort to maximize recharge efforts at these basins. 2)"Preserve untreated groundwater as the primary source of domestic water" (BMO #3, page 4-1 of the GWMP). FID owned recharge basins are

located primarily along the western portion of the District, near the City of Kerman and outlying rural areas which rely solely on groundwater as their domestic supply. 3)"Manage groundwater resources to the extent necessary to ensure reasonable, beneficial, and continued use of the resource" (BMO #6, page 4-1 of the GWMP). This project will provide recharge volume information and infiltration rate information to allow for improved management of recharge efforts. 4)"Monitor groundwater quality and quantity to provide the requisite information for establishing groundwater policies, goals and recommended actions" (BMO #7, page 4-1 of the GWMP). This project will provide recharge volume information and infiltration rate information to allow for improved management of recharge efforts.

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Fresno Irrigation District Gary Serrato 2907 South Maple Ave Fresno, CA 93725
Gserrato@fresnoirrigation.com

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Fresno Irrigation District Bill Stretch 2907 South Maple Ave Fresno, CA 93725
BStretch@fresnoirrigation.com 559-233-7161

Q5. Additional Information:

Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) Northern Region
- 2) North Central Region
- 3) South Central Region
- 4) Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

The FID Board of Directors adopted the Fresno Area Regional GWMP on January 25, 2006 with Resolution No. 2006-03. Adoption of GWMP per California water Code Section 10750 et. seq; Intent to adopt Part 2.75 of Division 6 of the California Water Code; resolution of intention California Water Code Section 10753.2; public hearing California Water Code Section 10753.5, et seq.; resolution of intention to update GWMP California Water Code Section 10753.3

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

Fresno Area Regional Groundwater Plan (GWMP) Memorandum of Understanding Regarding The Fresno Area Regional GWMP Upper Kings Basin Itegrated Regional Water Management Plan (IRWMP) Upper Kings Basin Integrated Regional Water Management Joint Powers Agreement

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

Fresno Irrigation District

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

N/A

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

N/A

Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

N/A

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

Attachment 1. Authorizing Documentation

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1_LGA12_FID_AuthDoc_1of1.pdf

Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2_LGA12_FID_EligDoc_1of1.pdf

Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3_LGA12_FID_GWMP_1of1.pdf

Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4_LGA12_FID_ProjD_1of1.pdf

Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5_LGA12_FID_WrkPln_1of1.pdf

Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6_LGA12_FID_Budget_1of1.pdf

Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7_LGA12_FID_Sched_1of1.pdf

Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8_LGA12_FID_QA_1of1.pdf

Attachemnt 9. Past Performance

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9_LGA12_FID_Perform_1of1.pdf

Attachment 10. AB1420 and Water Meter Implementation Compliance

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att10_LGA12_FID_1420_1of1.pdf
